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09/882,243	06/15/2001	Joseph Stanley Czyszczewski	BLD920000050US1	1361
7590	01/26/2005		EXAMINER	
David Victor, Esq Ste. 210 315 South Beverly Dr. Beverly Hills, CA 90212			MILIA, MARK R	
			ART UNIT	PAPER NUMBER
			2622	

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/882,243

**Applicant(s)**

CZYSZCZEWSKI ET AL.

**Examiner**

Mark R. Milia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☒ Claim(s) 8 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 June 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 1/24/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Figure 1 elements 22 a, b, and c. Examiner believes that the elements labeled 20 a, b, and c shown as output pages attached to Workstation (4) in Fig. 1 should be labeled as elements 22 a, b, and c. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Figure 2 element (74), Figure 3 block (132), and Figure 4b block (220). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the

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application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

2. The disclosure is objected to because of the following informalities: Examiner believes that on page 13, lines 11-12, "(at block 200)" should read "(at block 220)". Appropriate correction is required.

### ***Claim Objections***

3. Claim 8 is objected to because of the following informalities: Fails to specify the claim in which it is dependent on. Examiner believes claim 8 was meant to be dependent on claim 1 and will treat claim 8 as such in the following claim rejections. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 11-14, 16-24, 26-29, 31-39, and 41-44 are rejected under 35

U.S.C. 102(b) as being anticipated by U.S. Patent No. 5239390 to Tai.

Regarding claims 1, 16, and 31, Tai discloses a method, system, and apparatus for managing a multi-page document comprising: receiving a plurality of input files including digital representations of multiple pages of a document, wherein the content of each entire page is represented in a first representation format, wherein the entire page content is capable of including content of a first content type and second content type (see column 4 lines 26-45), for each page of the document represented in the input files, performing: (i) determining regions in the page including content of the second content type (see column 4 lines 26-65, column 6 lines 42-45, column 6 line 67-column 7 line 5 and column 8 lines 30-57), (ii) processing each determined region in the page to generate the content for each region in a second representation format (see column 6 line 31-column 7 line 15), and (iii) adding the content of the entire page in the first representation format and the content of each region in the second representation format to at least one output file (see Figs. 1 and 9 and column 6 line 31-column 7 line 45), and storing the output file (see Figs. 1 and 9 and column 7 lines 43-45).

Regarding claims 2, 17, and 32, Tai discloses the system discussed in claims 1, 16, and 32, and further discloses wherein the first content style comprises text and line art and wherein the second content style comprises a continuous tone image (see column 4 lines 27-31).

Regarding claims 3, 18, and 33, Tai discloses the system discussed in claims 1, 16, and 32, and further discloses wherein the first representation format comprises a device dependent image format and the second representation format comprises a device independent image format (see column 2 lines 60-66, column 4 lines 27-30, and column 6 lines 42-45, reference shows that documents may contain text, halftone, and continuous tone regions which are digitized and manipulated for printing, it is also well known in the art that halftone formats are device dependent images and that continuous tone formats are device independent images, therefore the reference anticipates the claimed element).

Regarding claims 4, 19, and 34, Tai discloses the system discussed in claims 3, 18, and 33, and further discloses wherein the device dependent format comprises a halftone image format and the device independent format comprises a grey scale image format (see column 2 lines 60-66, column 4 lines 27-30 and column 6 lines 31-45).

Regarding claims 5, 20, and 35, Tai discloses the system discussed in claims 4, 19, and 34, and further discloses wherein processing each determined region in the page to generate content in the p-ay scale format comprises descreening the halftone format of the determined region in the page to generate the determined region in the gray scale image format (see column 7 lines 12-45).

Regarding claims 6, 21, and 36, Tai discloses the system discussed in claims 1, 16, and 32, and further discloses wherein each output file is capable of including content in the first and second representation formats for one page (see column 4 lines 27-31, column 6 lines 31-41, and column 8 lines 30-57).

Regarding claims 7, 22, and 37, Tai discloses the system discussed in claims 1, 16, and 31, and further discloses wherein each output file is capable of including content in the first and second representation formats for a plurality of pages (see column 6 line 31-column 7 line 45, reference shows formats of text, continuous tone, and halftone which are rendered and stored for later retrieval and printing which can be done for a plurality of pages because reference uses the term document which is known to contain one or more pages and because the reference teaches a storage unit that is able to hold a plurality of documents that can be retrieved, rendered, and then printed, therefore the claim is anticipated by the reference).

Regarding claims 8, 23, and 38, Tai discloses the system discussed in claims 1, 16, and 32, and further discloses selecting the output files to render (see column 7 lines 24-45) and for each page of the document represented in the selected output files, performing: (i) accessing the content of the entire page in the first representation format (see column 4 lines 27-31 and column 7 lines 24-45), (ii) accessing the content for each region in the page in the second representation format (see column 4 lines 27-65), (iii) processing the content for each region in the page in the second representation format to generate the content for each region in the first representation format (see column 4 line 31-column 5 line 2), (iv) merging the content for the entire page and the content for each region in the first representation format into page output in the first representation format (see column 6 line 67-column 7 line 14), and (v) rendering the page output for each page into a human observable format (see column 6 lines 64-66).

Regarding claims 9, 24, and 39, Tai discloses the system discussed in claims 8, 16, and 38, and further discloses wherein each output file includes one data structure for the content of the entire page in the first representation format and one additional data structure of the content for each determined region in the second representation format (see column 4 lines 26-65, column 6 lines 31-45 and column 6 line 67-column 7 line 14).

Regarding claims 11, 26, and 41, Tai discloses the system discussed in claims 8, 25, and 38, and further discloses determining if a high quality option is selected wherein the step of processing the content for each region in the second representation format to generate the content for each region in the first representation format and merging the content for the entire page and each page region is only performed if the high quality option is selected (see column 8 lines 30-57).

Regarding claims 12, 27, and 42, Tai discloses the system discussed in claims 11, 26, and 41, and further discloses rendering the content of the entire page in the first representation format if the high print quality is not selected (see column 8 lines 30-57).

Regarding claims 13, 28, and 43, Tai discloses the system discussed in claims 8, 23, and 38, and further discloses wherein each region in the page in the second representation format is processed to generate the content for each region in the first representation format in a manner that optimizes the generated content in the first representation format for rendering on one of multiple output devices (see column 4 line 66-column 7 line 23 and column 8 lines 30-57).



Regarding claims 14, 29, and 44, Tai discloses the system discussed in claims 8, 16, and 31, and further discloses wherein the multi-page document is managed in a printing system (see Fig. 9 and column 4 lines 26-65).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10, 25, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tai as applied to claims 9, 24, and 39 above, and further in view of U.S. Patent Application Publication No. 2002/0178950 to Delhoune et al.

Tai does not disclose expressly wherein the output file comprises a Tagged Image File Format (TTF) file and wherein information on each data structure is maintained in an image file directory (IFD).

Delhoune discloses wherein the output file comprises a Tagged Image File Format (TTF) file and wherein information on each data structure is maintained in an image file directory (IFD) (see paragraphs [0017-0024] and [0041-0070]).

Tai & Delhoune are combinable because they are from the same field of endeavor, merging page elements from different formats into one page.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the use of TIFF files and a book file/image directory with the system on Tai.

The suggestion/motivation for doing so would have been provide a way to merge page elements that have different formats and resolutions (see paragraphs [0004-0006] of Delhoune).

Therefore, it would have been obvious to combine Delhoune with Tai to obtain the invention as specified in claims 10, 25, and 40.

Claims 15, 30, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tai as applied to claims 1, 16, and 31 above, and further in view of U.S. Patent No. 5568571 to Willis et al.

Tai discloses storing the document for later rendering on a printing device (see column 7 lines 43-45).

Tai does not disclose expressly wherein the multi-page document is managed within a network publishing system to archive the document for later rendering on one of multiple network printing devices.

Willis discloses wherein the multi-page document is managed within a network publishing system to archive the document for later rendering on one of multiple network printing devices (see Fig. 1 and column 9 lines 55-64).

Tai & Willis are combinable because they are from the same field of endeavor, high quality printing of images containing two or more different content types.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the archive database and selection of printers of Willis with the system of Tai.

The suggestion/motivation for doing so would have been to provide the ability to reproduce the best quality image by using the most appropriate printer for the image parameters.

Therefore, it would have been obvious to combine Willis with Tai to obtain the invention as specified in claims 15, 30, and 45.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. To further show state of the art refer to U.S. Patent numbers cited on PTO-892 (Notice of References Cited).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (703) 305-1900. The examiner can normally be reached M-F 8:00am-4:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached at (703) 305-4712. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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